

Title (en)
SILVER-COATED COPPER POWDER AND CONDUCTIVE PASTE, CONDUCTIVE MATERIAL, AND CONDUCTIVE SHEET USING SAME

Title (de)
SILBERBESCHICHTETES KUPFERPULVER UND LEITFÄHIGE PASTE, LEITFÄHIGES MATERIAL UND LEITFÄHIGE FOLIE DAMIT

Title (fr)
POUDRE DE CUIVRE REVÊTUE D'ARGENT, ET PÂTE CONDUCTRICE, MATÉRIAU CONDUCTEUR ET FEUILLE CONDUCTRICE LA COMPRENANT

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Application
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JP 2015059482 W 20150326

Abstract (en)
Provided is a silver-coated copper powder that has a dendritic shape, that ensures excellent conductivity as a result of having an increased number of points of contact when silver-coated dendritic copper particles are in contact, that prevents aggregation, and that can be suitably used in a conductive paste, an electromagnetic wave shield, or the like. The silver-coated copper powder comprises amassed dendritic copper particles 1 having a linearly grown main trunk 2 and a plurality of branches 3 branching from the main trunk 2. The surface of the copper particles 1 is coated with silver. The main trunk 2 and the branches 3 of the copper particles 1 have a flat plate shape in which the average cross-sectional thickness is more than 1.0 μm but no more than 5.0 μm . The silver-coated copper powder has a flat plate shape configured from a layered structure of one layer or a plurality of stacked layers. The average particle size (D50) is 1.0-100 μm .

IPC 8 full level
B22F 1/00 (2022.01); **B22F 1/02** (2006.01); **B22F 1/052** (2022.01); **B22F 1/06** (2022.01); **B22F 1/068** (2022.01); **B22F 1/10** (2022.01); **B22F 1/103** (2022.01); **B22F 1/107** (2022.01); **B22F 1/17** (2022.01); **C09C 1/62** (2006.01); **C09C 3/06** (2006.01); **C09D 5/24** (2006.01); **C09D 201/00** (2006.01); **C23C 18/42** (2006.01); **C25C 5/02** (2006.01); **H01B 1/00** (2006.01); **H01B 1/22** (2006.01); **H01B 5/00** (2006.01)

CPC (source: EP KR US)
B22F 1/00 (2013.01 - EP KR US); **B22F 1/052** (2022.01 - EP KR US); **B22F 1/06** (2022.01 - EP KR US); **B22F 1/068** (2022.01 - EP KR US); **B22F 1/10** (2022.01 - EP KR US); **B22F 1/103** (2022.01 - EP KR US); **B22F 1/107** (2022.01 - EP KR US); **B22F 1/17** (2022.01 - EP KR US); **B22F 9/24** (2013.01 - EP US); **C09C 1/62** (2013.01 - EP US); **C09C 1/627** (2013.01 - KR); **C09C 1/66** (2013.01 - EP US); **C09C 3/06** (2013.01 - US); **C09C 3/063** (2013.01 - KR); **C09C 3/066** (2013.01 - US); **C09D 5/24** (2013.01 - EP KR US); **C09D 5/32** (2013.01 - EP US); **C09D 7/61** (2017.12 - KR); **C09D 7/70** (2017.12 - EP US); **C09D 201/00** (2013.01 - EP US); **C23C 18/1635** (2013.01 - EP US); **C23C 18/1834** (2013.01 - EP US); **C23C 18/42** (2013.01 - KR US); **C23C 18/44** (2013.01 - EP US); **C23C 18/54** (2013.01 - EP US); **C25C 5/02** (2013.01 - EP US); **H01B 1/026** (2013.01 - EP US); **H01B 1/22** (2013.01 - EP KR US); **H01B 5/00** (2013.01 - EP US); **H05K 9/0083** (2013.01 - EP US); **B22F 2301/10** (2013.01 - EP KR US); **B22F 2301/255** (2013.01 - EP KR US); **B22F 2304/10** (2013.01 - EP US); **C01P 2004/03** (2013.01 - EP US); **C01P 2006/40** (2013.01 - EP US); **C01P 2006/42** (2013.01 - EP US); **C08K 9/02** (2013.01 - EP US); **C08K 2003/085** (2013.01 - EP US); **H01J 37/28** (2013.01 - US)

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